# FS-532 Finisher
# INSTALLATION MANUAL

Applied Machine: 1250/1250P/1052/951
MFP: Press 125ppm/Press 105ppm/Pro 95ppm
Product Cord: A4EU/A4EX/A4EV/A4EW

## I. Preparation Prior to Installation

1. **Choose a horizontal and stable floor for installing the machine.**
2. **Lifting the machine in an awkward position or transporting it in a poorly balanced position could result in personal injury. When transporting the machine, assign an adequate number of persons to the job and ensure that each person can take a good position of not being excessively loaded. (mass: approx. 74 kg)**
3. **Make sure to wear gloves for handling or carrying the machine.**
4. **When installing optional Punch kit/Post Inserter to the Finisher, be sure to install it beforehand, then install the finisher to the machine.**

## II.Contents


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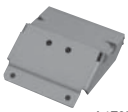
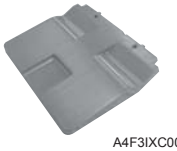
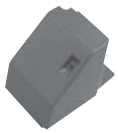
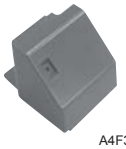
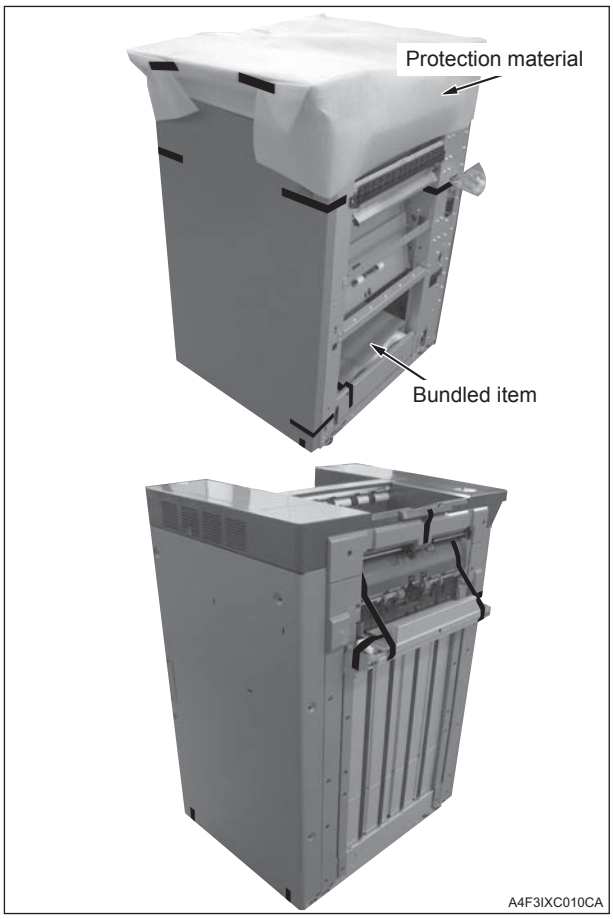
•[FS-532+SD-506+RU-510+1250/1250P/1052] ..... E-13 to 14 page
•**Common operations after installing FS-532 ..... E-15 to 18 page**


## III. Accessory parts

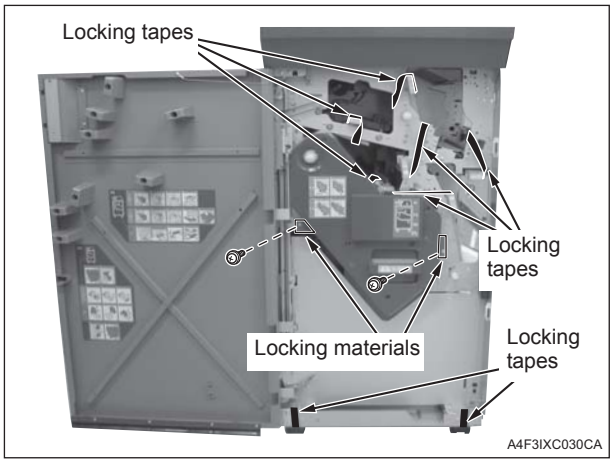
| No. | Name | Shape | Q'ty |
|---|---|---|---|
| 1. | Reinforcing plate |  A4F3IXC001CA | 2 |
| 2. | Installation plate/1 | A4F3IXC002CA | 2 |
| 3. | Installation plate/2 | A4F3IXC003CA | 1 |
| 4. | Installation plate/3 | A4F3IXC004CA | 1 |
| 5. | Installation plate/4 | 15AQIXC004SA | 1 |
| 6. | Connector cover | 15BMIXC002SA | 1 |
| 7. | Main tray |  A4F3IXC005CA | 1 |
| 8. | Alignment plate /Fr | A4F3IXC006CA | 1 |
| 9. | Alignment plate /Rr | A4F3IXC007CA | 1 |
| 10. | Cover tray/Fr |  A4F3IXC008CA | 1 |
| 11. | Cover tray/Rr |  A4F3IXC009CA | 1 |
| 12. | TP screw M4x8 | | 14 |
| 13. | TP screw M3x12 | | 4 |
| 14. | S-tite screw (black) M3x6 | | 2 |
| 15. | S-tite screw M4x6 | | 4 |
| 16. | Holding material | A4F3IXC028CA | 1 |
| 17. | Installation manual | | 1 |

## IV.Procedure before installation

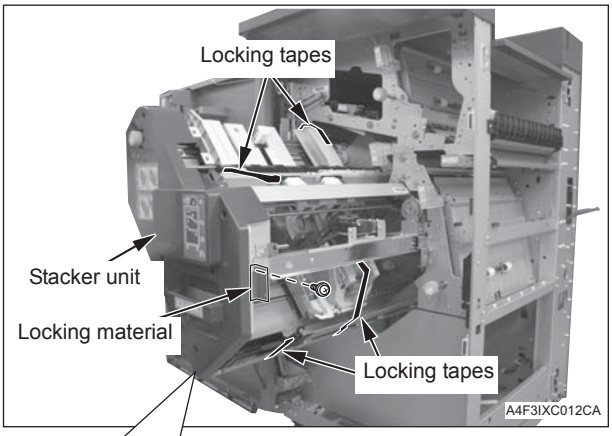
1. Visually inspect the Finisher.
2. Remove the bundled item, the locking tapes and the locking protection materials from the front door, the left side and the rear side of the finisher.

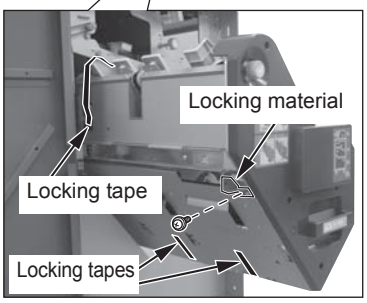



3. Remove the locking tapes and two screws from the locking materials.

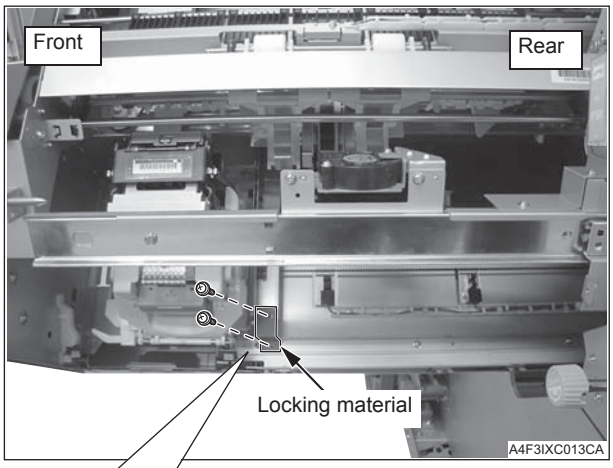


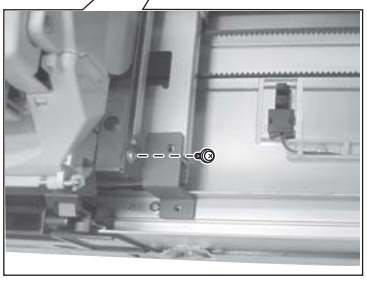

4. Pull out the stacker unit and remove the locking tapes and the locking materials. (2 screws)



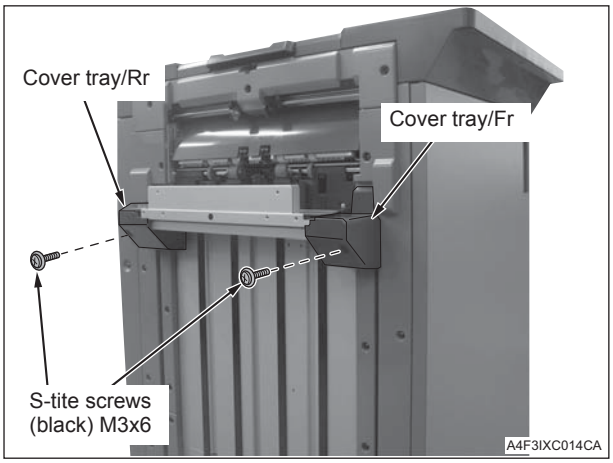

5. Remove the locking materials from inside the stacker. (3 screws)



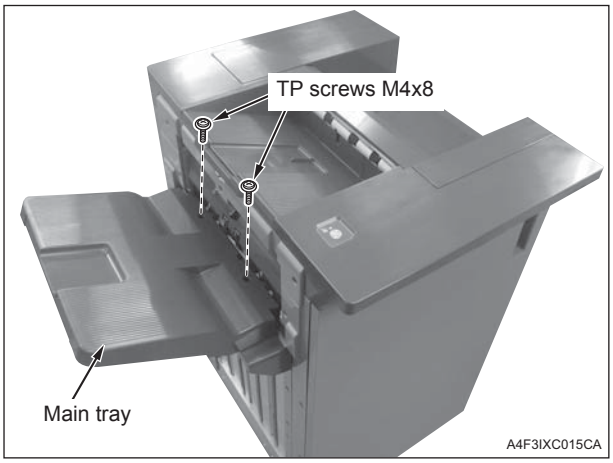



## V. Installation procedures (Common operations)

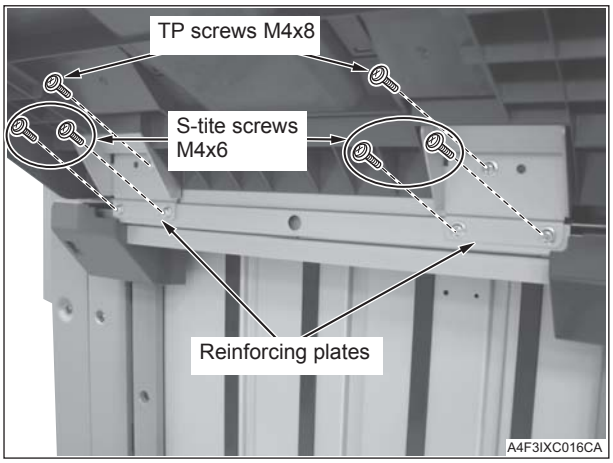
1. Install the cover trays/Fr and /Rr to the up-down unit. (S-tite screw (black) M3x6: 2 pcs.)



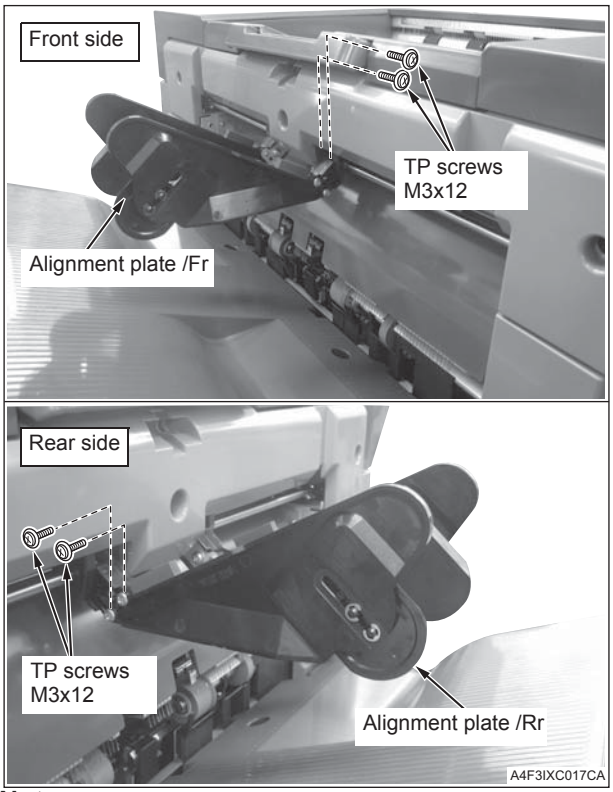

2. Install the main tray to the up-down unit. (TP screw M4x8: 2pcs.)



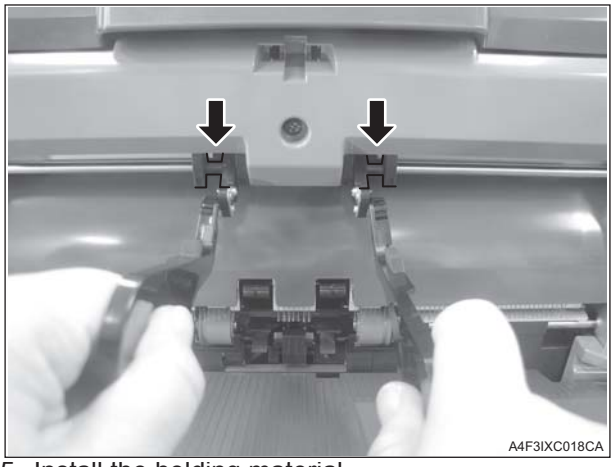

3. Install the reinforcing plate. (S-tite screw M4x6: 2 pcs.x2 places)(TP screw M4x8: 1 pc.x2 places)




4. Install the alignment plates/Fr and /Rr. (TP screw M3x12: 4 pcs.)

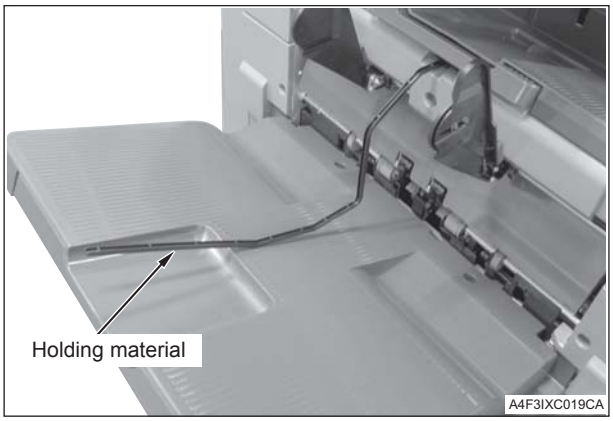



**Note:**
**Be sure to install the plates to the positions as shown in the picture.**



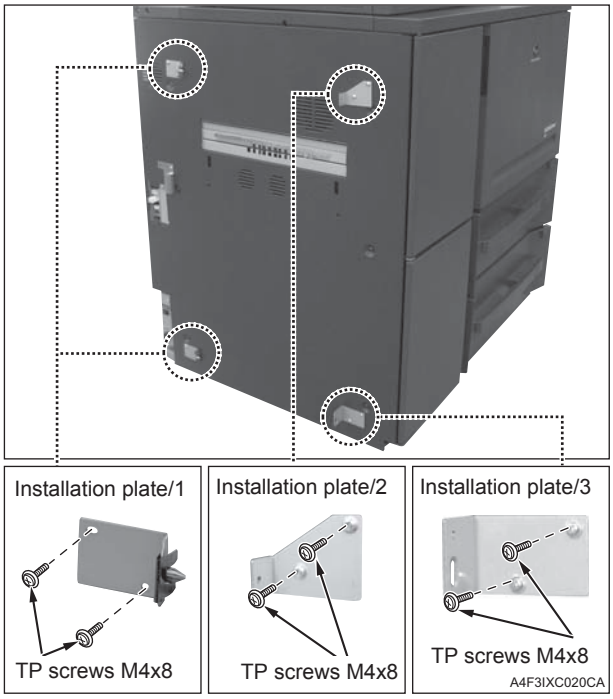

5. Install the holding material.

**Note:**
- **Refer to the user's guide for the usage of the holding material.**
- **Be sure to install the holding material by pushing it into the finisher.**



Installation procedure for
• [FS-532 + 1052/951]

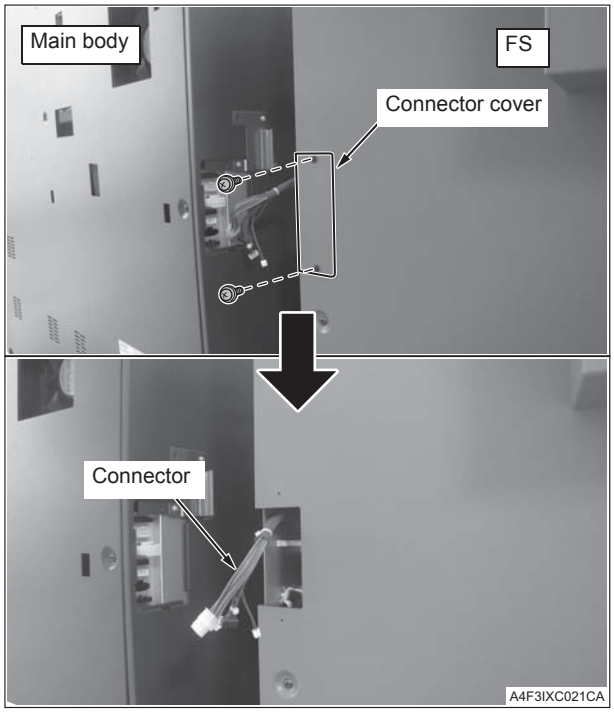
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the main body as below. (TP screw M4x8: each 2 pcsx4 places.)




3. Remove the FS connector cover and pull out the connector to the rear cover side of the FS.

**Note:**

**Do not throw away the removed screws. They are used in the post process.**

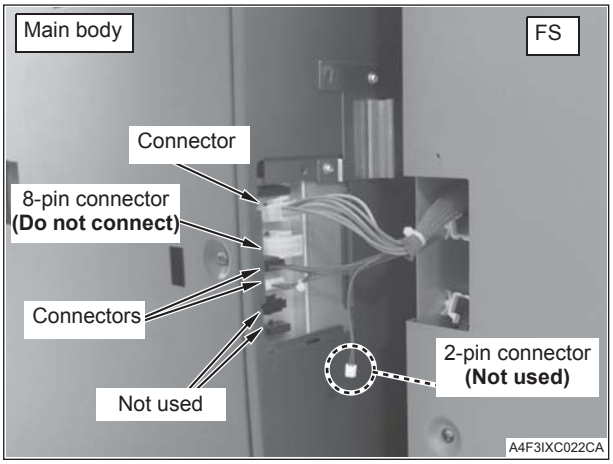



4. Connect 3 FS connector plugs to the connector jacks of the main body on the paper exit side.

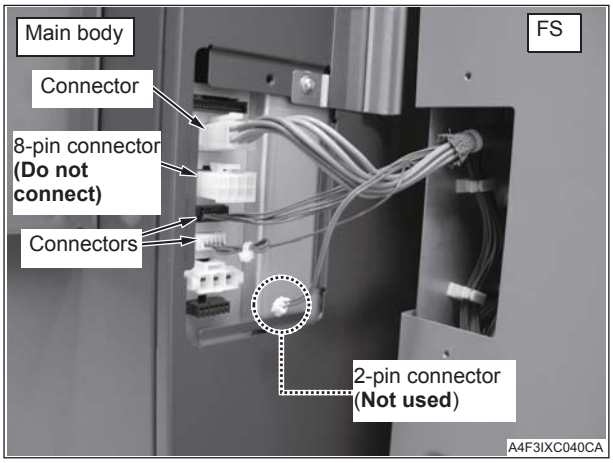
**Note:**

- **<u>Do not connect to the 8-pin connector. This will damage the board.</u>**
- **1 small 2-pin connector is not used.**

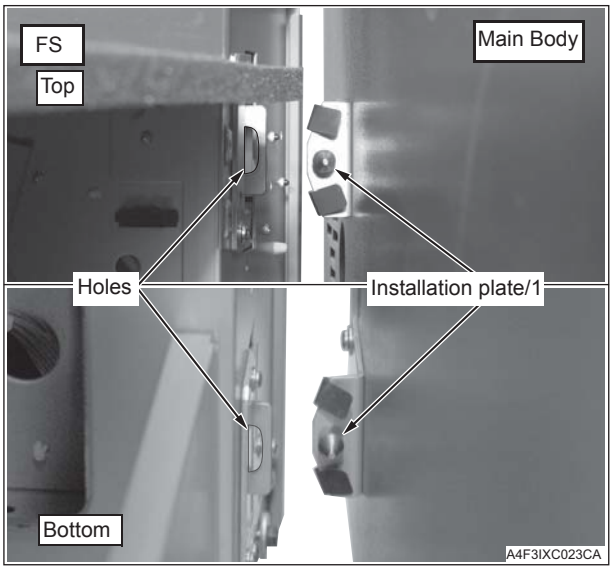
[951]




[1052]

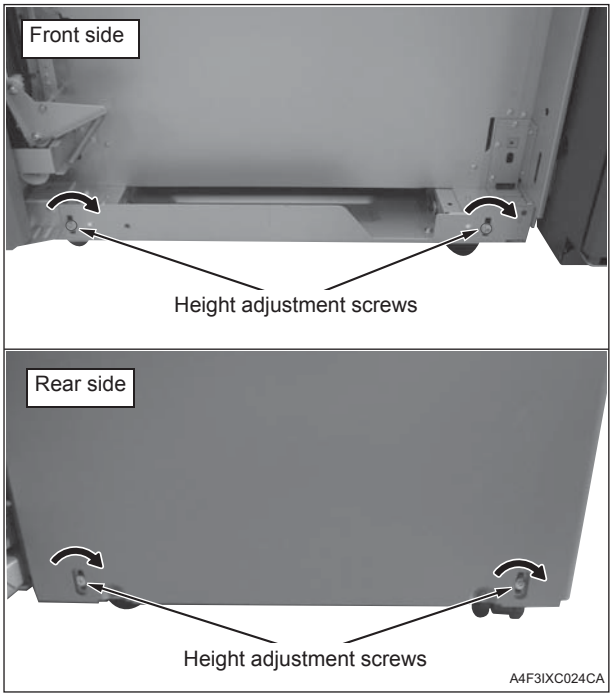



5. Install the FS to the machine.
   (1) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

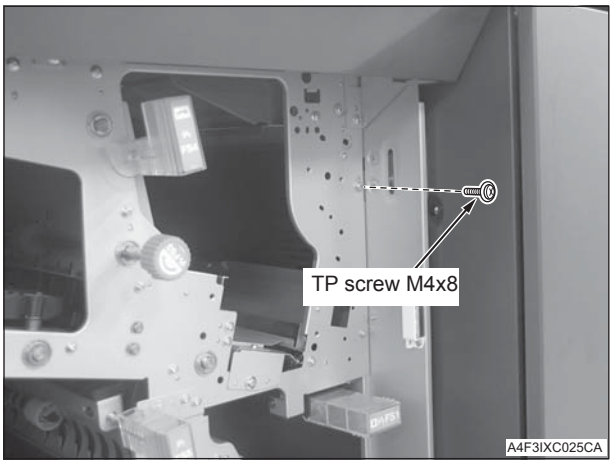


**Note:**

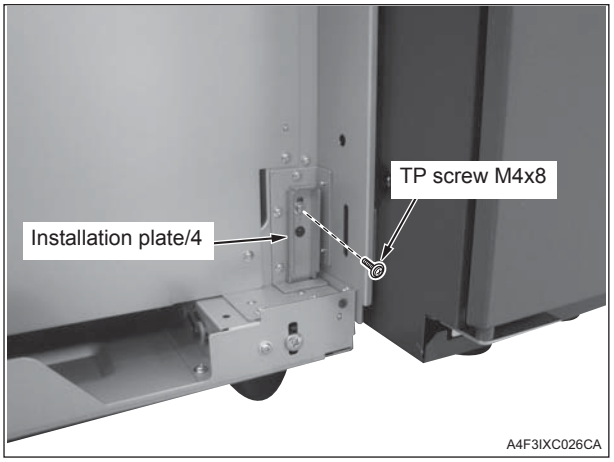
- **If the heights and the gaps between the FS and the main body are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




6. Secure the upper part of the FS to the main body with a screw. (TP screw M4x8: 1 pc.)



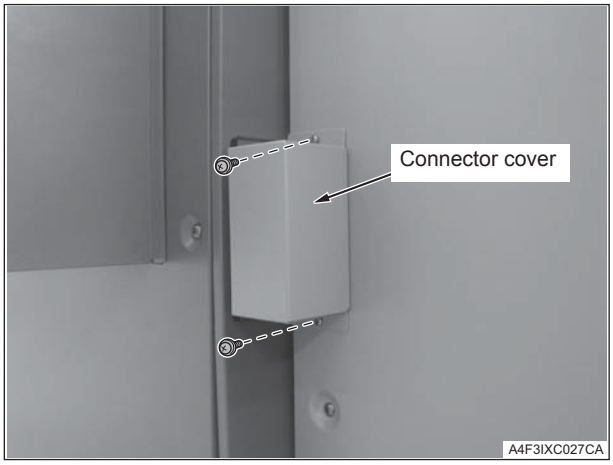

7. Install the Installation plate/4 to secure the lower part of the FS to the main body. (TP screw M4x8: 1 pc.)




8. Install the Connector cover. (2 screws removed in step 3)

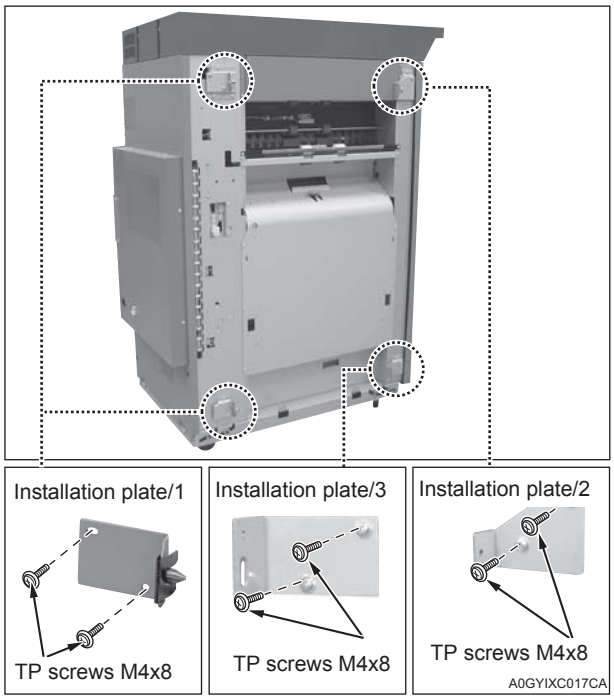
**Note:**

**Be sure to move the connector cover to the left side when installing.**

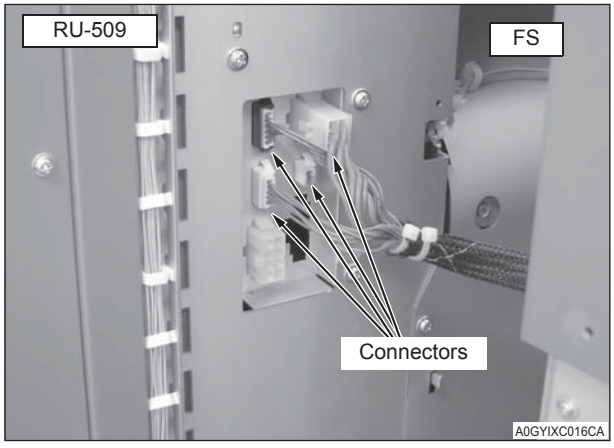


Installation procedure for
- [FS-532+RU-509+1052]
  * For the installation procedure for the RU-509, see the RU-509 installation manual.

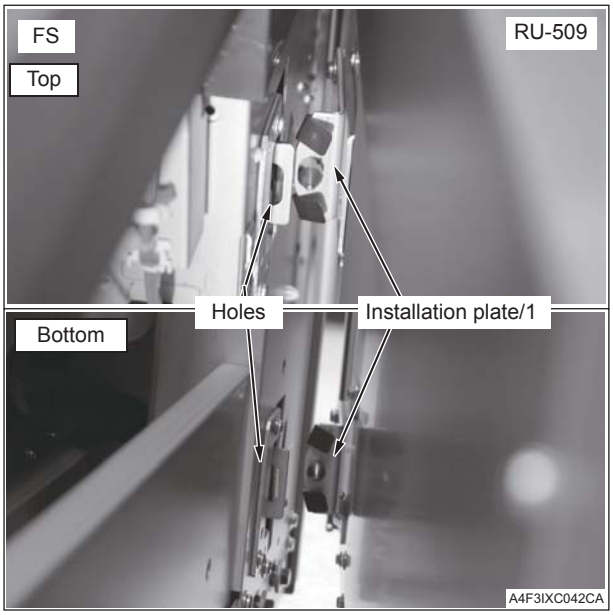
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the RU-509 as below. (TP screw M4x8: each 2 pcsx4 places.)



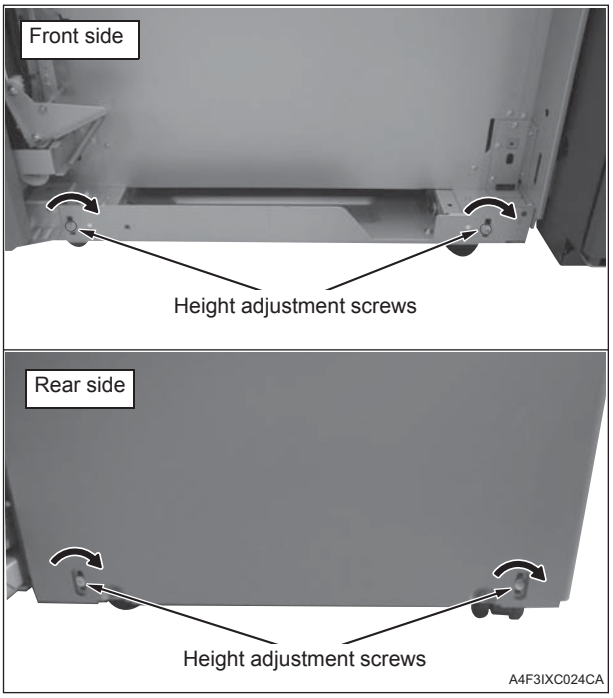

3. Install FS to the RU-509.
   (1) Connect the four FS connector plugs to the connector jacks of the RU-509.




   (2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

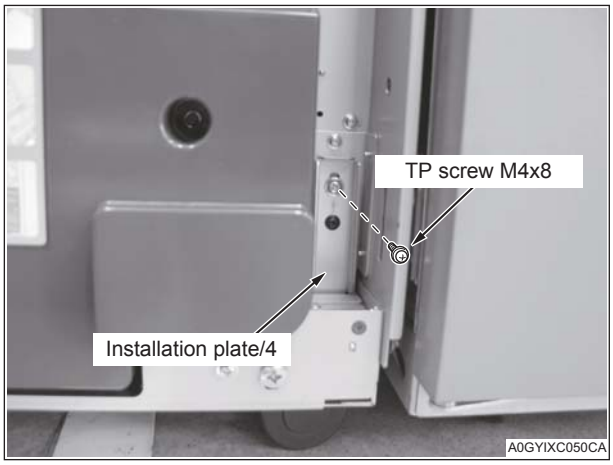



**Note:**
- **If the heights and the gaps between the FS and the RU-509 are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




   (3) Secure the upper part of the FS to the RU-509 with a screw. (TP screw M4x8: 1 pc.)

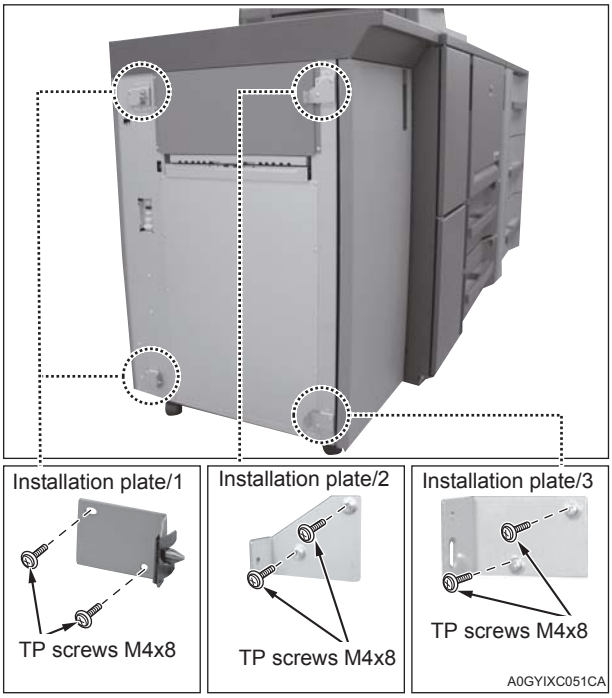
(4) Install the Installation plate/4 to secure the lower part of the FS to the RU-509. (TP screw M4x8: 1 pc.)



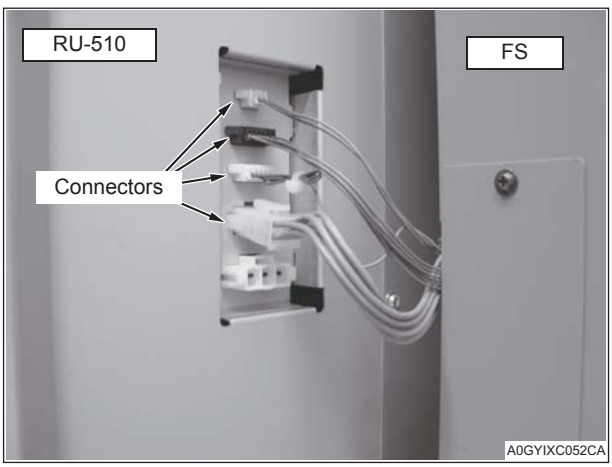

4. Perform the operations described in "VI. Common operations after installing FS-532", page 15 to 18.

Installation procedure for
• [FS-532+RU-510+1250/1250P/1052]
* For the installation procedure for the RU-510, see the RU-510 installation manual.

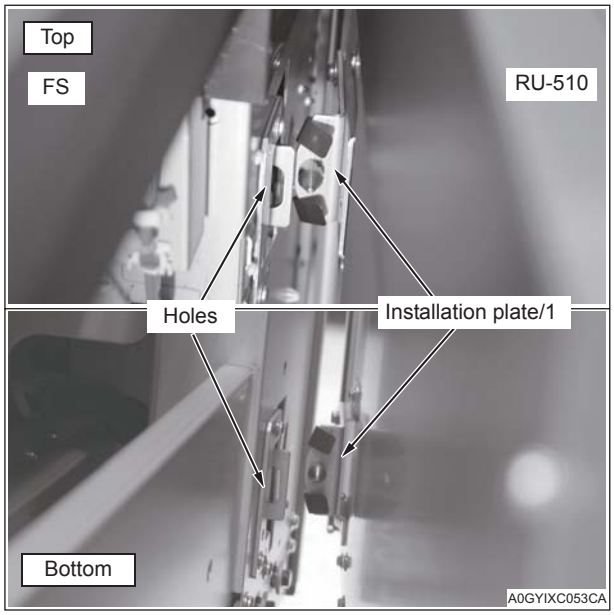
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the RU-510 as below. (TP screw M4x8: each 2 pcsx4 places.)




3. Install FS to RU-510.
(1) Connect the four FS connector plugs to the connector jacks of the RU-510.

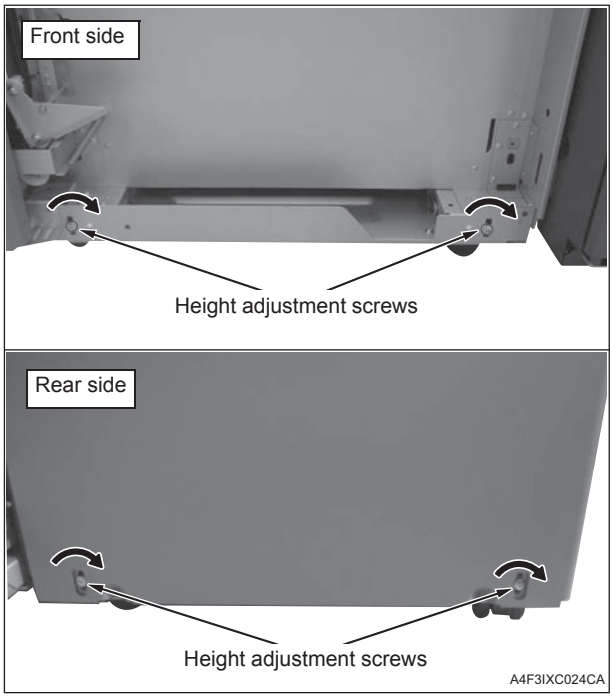


(2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

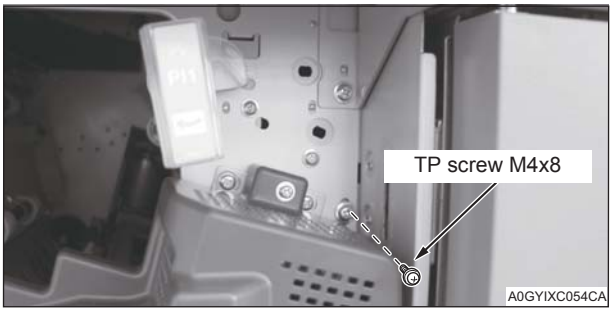



**Note:**

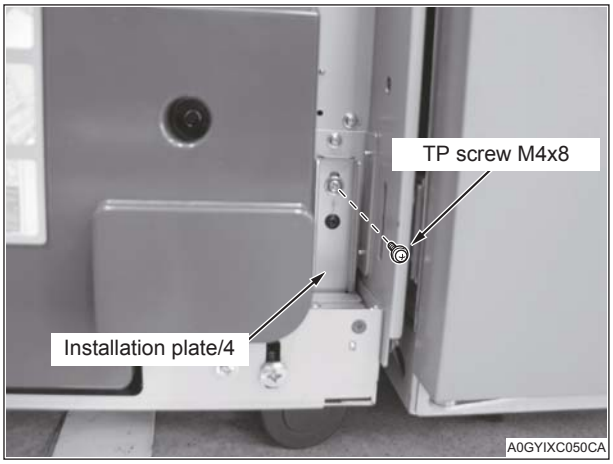
- **If the heights and the gaps between the FS and the RU-510 are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




(3) Secure the upper part of the FS to the RU-510 with a screw. (TP screw M4x8: 1 pc.)



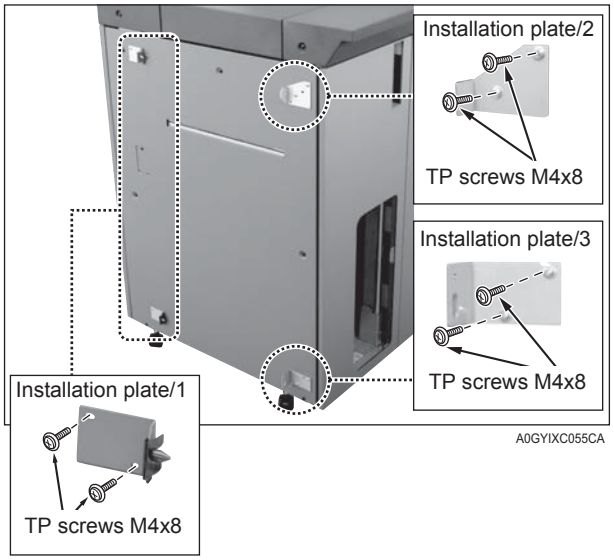

(4) Install the Installation plate/4 to secure the lower part of the FS to the RU-510. (TP screw M4x8: 1 pc.)



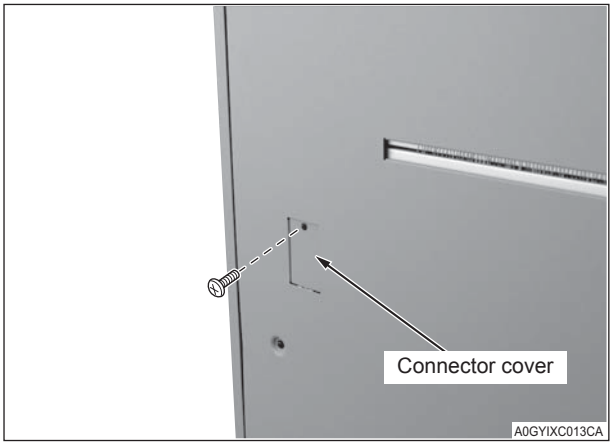

4. Perform the operations described in "VI. Common operations after installing FS-532", page 15 to 18.

Installation procedure for
- [FS-532+PB-503+RU-510+1250/1250P/1052]
  * For the installation procedure for the RU-510, see the RU-510 installation manual.

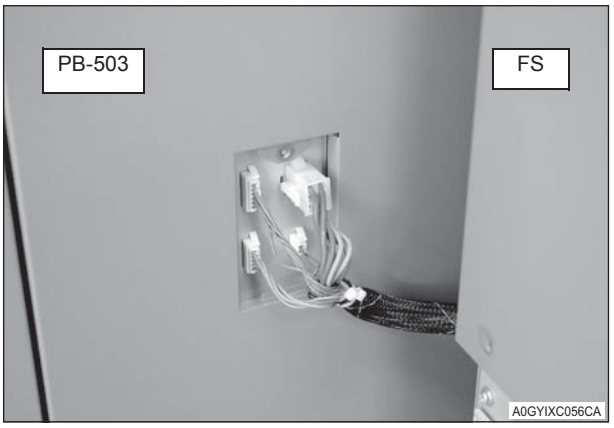
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the PB-503 as below. (TP screw M4x8: each 2 pcsx4 places.)



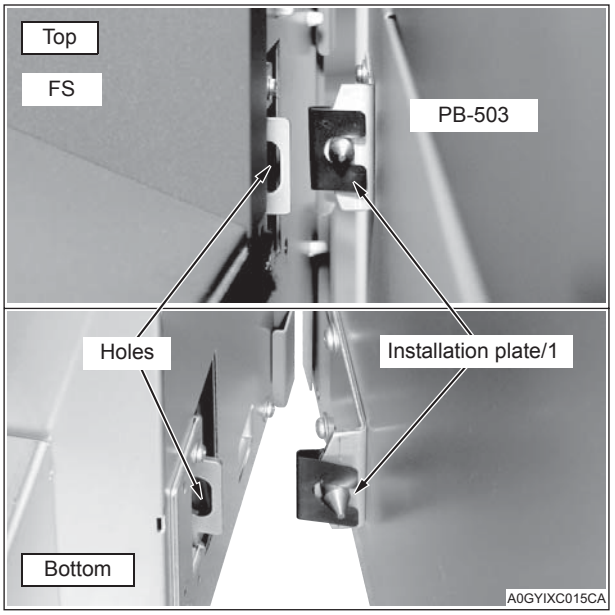

3. Remove the connector cover on the left side of the PB-503. (1 screw)




4. Install the FS to the PB-503.
   (1) Connect the four FS connector plugs to the connector jacks of the PB-503.

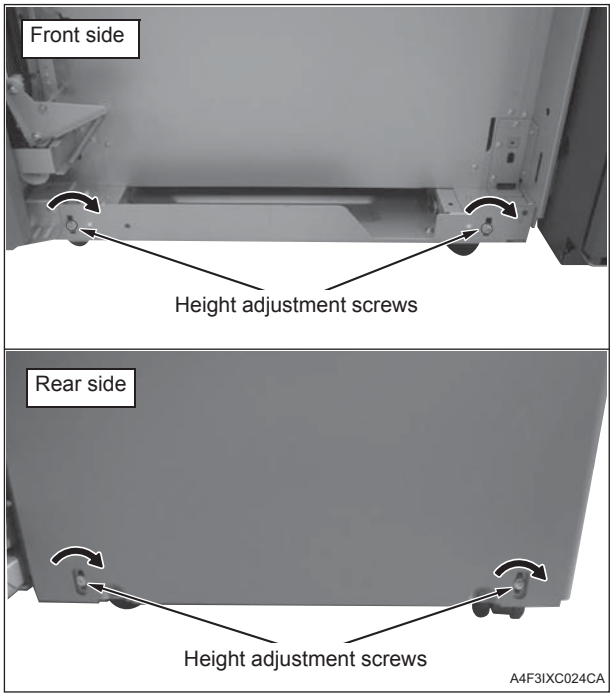



   (2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.



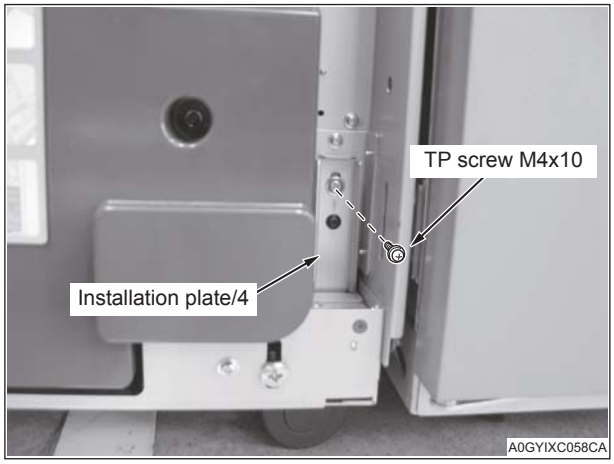
**Note:**

- **If the heights and the gaps between the FS and the PB-503 are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




(3) Secure the upper part of the FS to the PB-503 with a screw. (TP screw M4x10: 1 pc.)

(4) Install the Installation plate/4 to secure the lower part of the FS to the PB-503. (TP screw M4x10: 1 pc.)

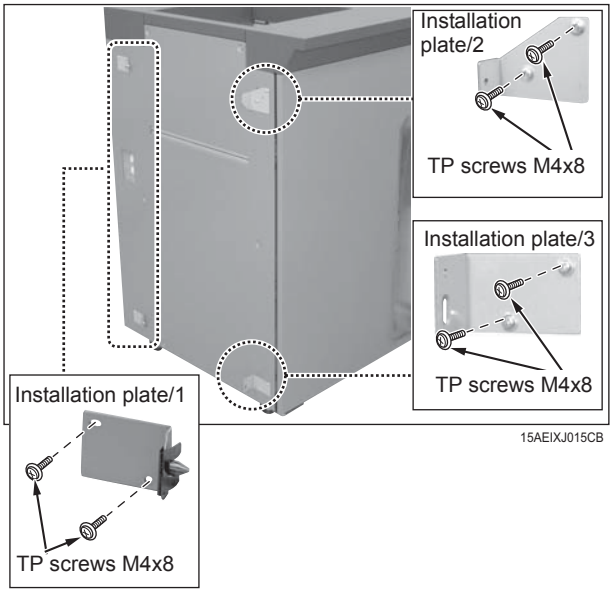



5. Perform the operations described in "VI. Common operations after installing FS-532", page 15 to 18.

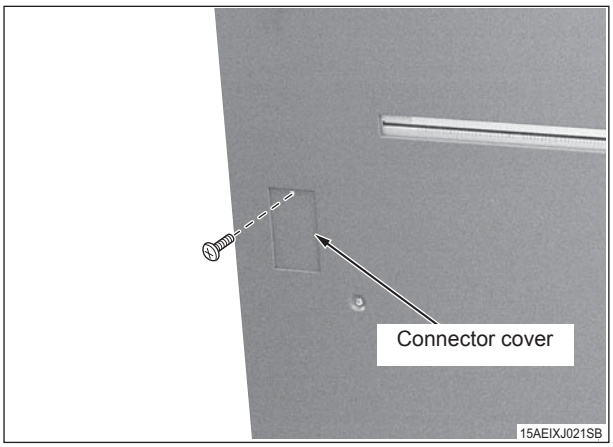
Installation procedure for

- [FS-532+LS-505+RU-510+1250/1250P/1052]
  - * For the installation procedure for the RU-510, see the RU-510 installation manual.

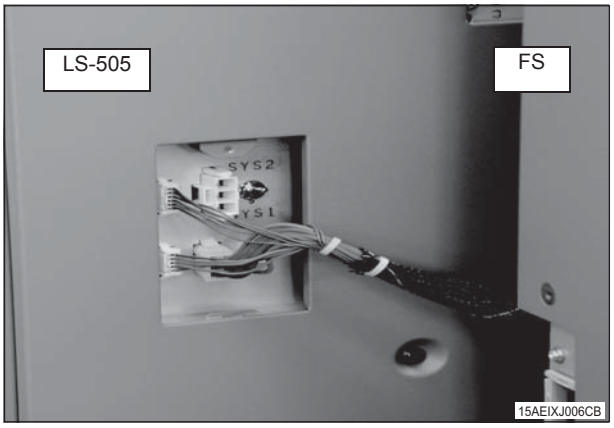
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the LS-505 as below. (TP screw M4x8: each 2 pcsx4 places.)



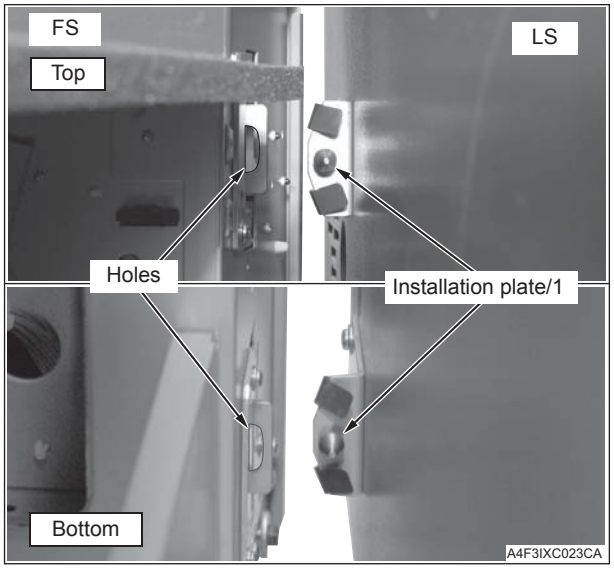

3. Remove the connector cover on the left side of the LS-505.(1 screw)



4. Install the FS to the LS-505.
   (1) Connect the four FS connector jacks to the connector plugs of the LS-505 on the paper exit side.

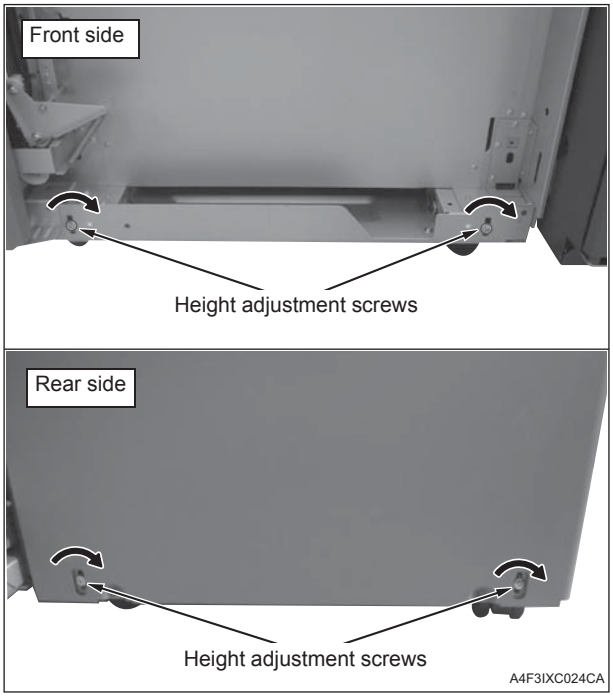



   (2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

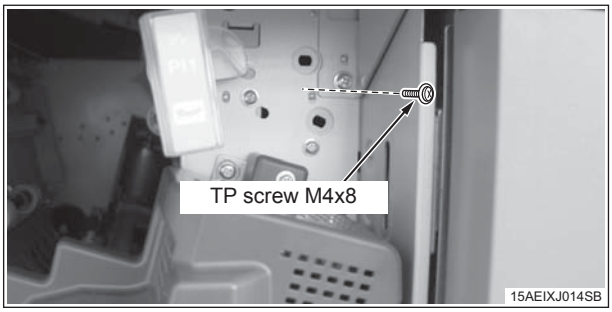



**Note:**

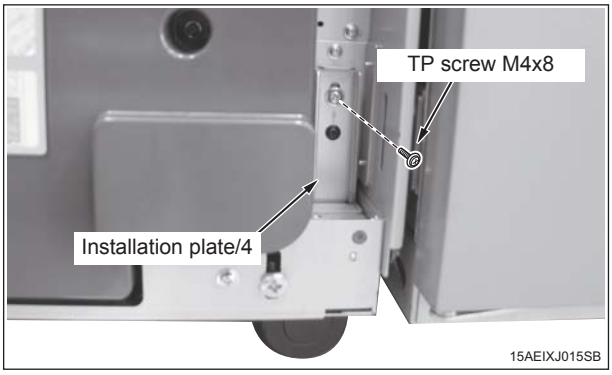
- **If the heights and the gaps between the FS and the main body are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




   (3) Secure the upper part of the FS to the LS-505 with a screw. (TP screw M4x8: 1 pc.)



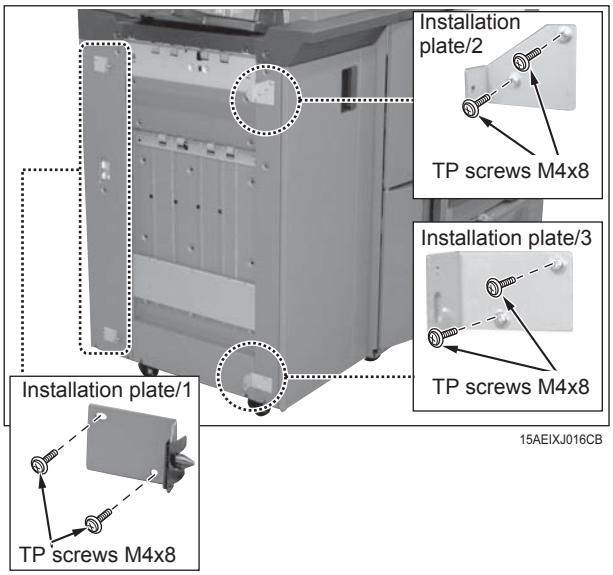

   (4) Install the Installation plate/4 to secure the lower part of the FS to the LS-505. (TP screw M4x8: 1 pc.)



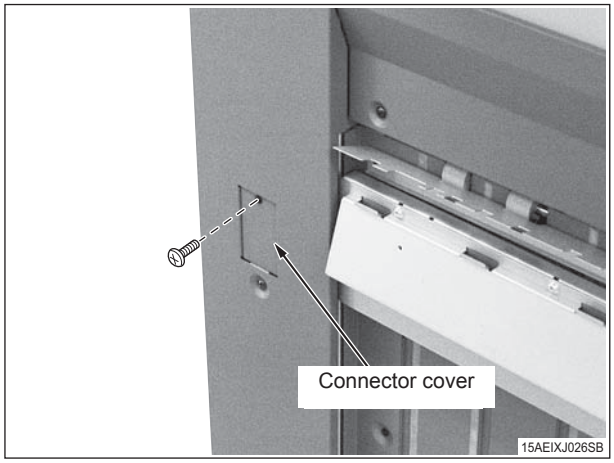

5. Perform the operations described in "VI. Common operations after installing FS-532", page 15 to 18.

Installation procedure for
- [FS-532+FD-503+RU-510+1250/1250P/1052]
  * For the installation procedure for the RU-510, see the RU-510 installation manual.

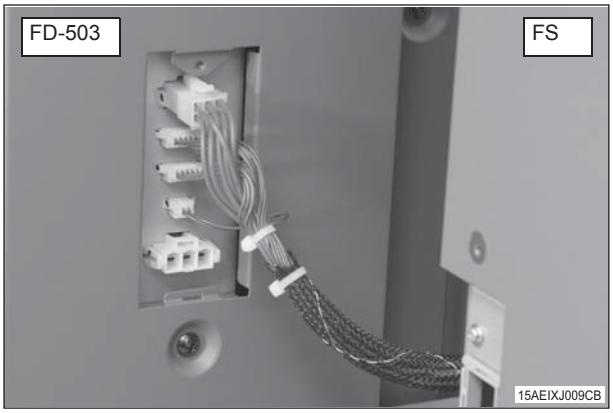
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the FD-503 as below. (TP screw M4x8: 8 pcs.)



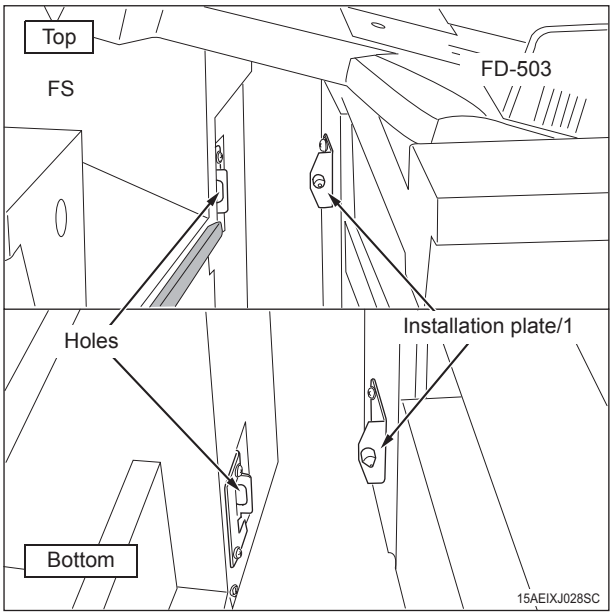

3. Remove the connector cover on the left side of the FD-503.(1 screw)




4. Install the FS to the FD-503.
   (1) Connect the four FS connector plugs to the connector jacks of the FD-503 on the paper exit side.

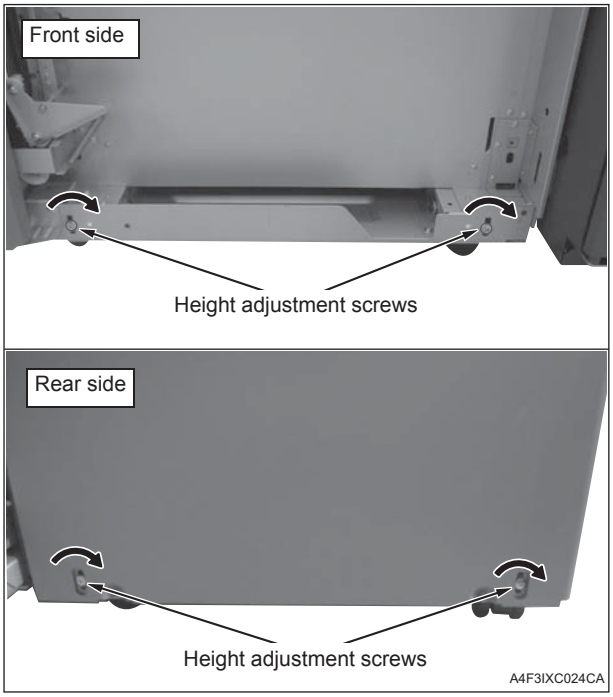



   (2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

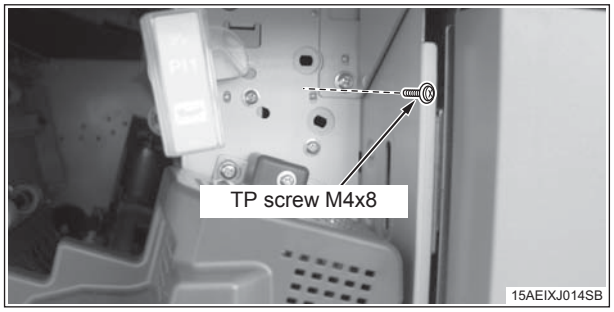


**Note:**

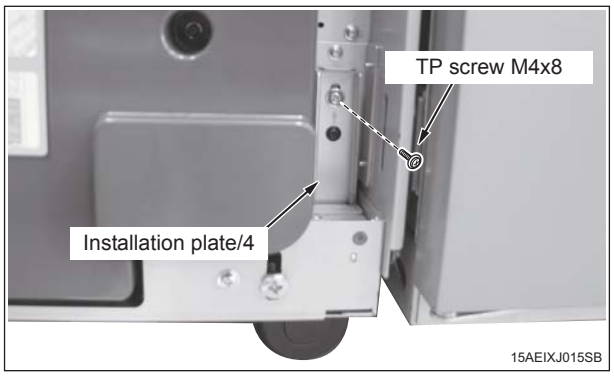
- **If the heights and the gaps between the FS and the FD-503 are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




(3) Secure the upper part of the FS to the FD-503 with a screw. (TP screw M4x8: 1 pc.)




(4) Install the Installation plate/4 to secure the lower part of the FS to the FD-503. (TP screw M4x8: 1 pc.)

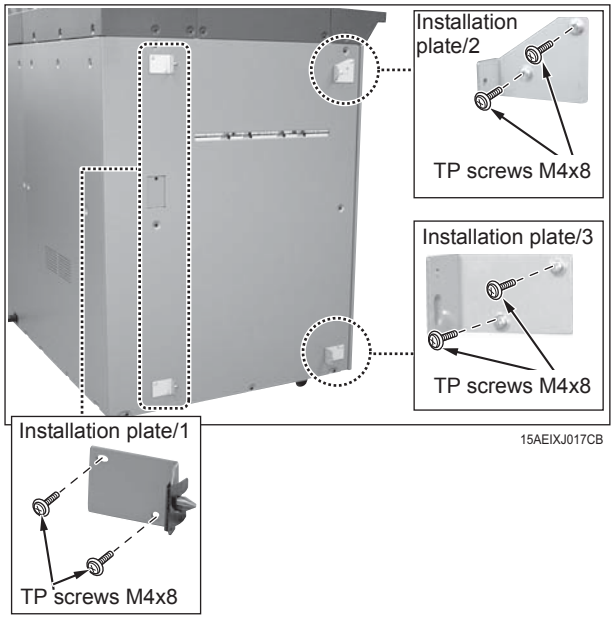



5. Perform the operations described in "VI. Common operations after installing FS-532", page 15 to 18.

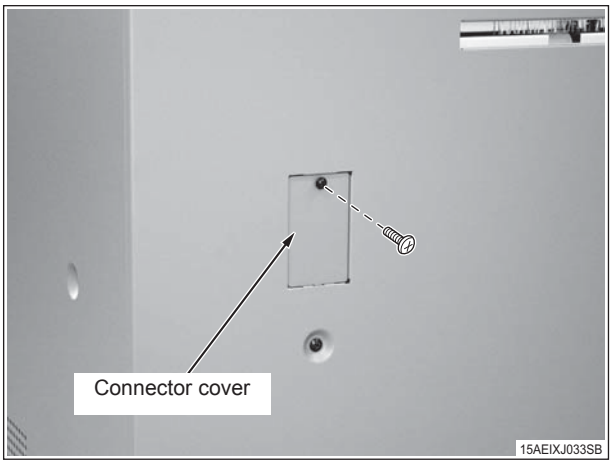
Installation procedure for

- [FS-532+SD-506+RU-510+1250/1250P/1052]
  * For the installation procedure for the RU-510, see the RU-510 installation manual.

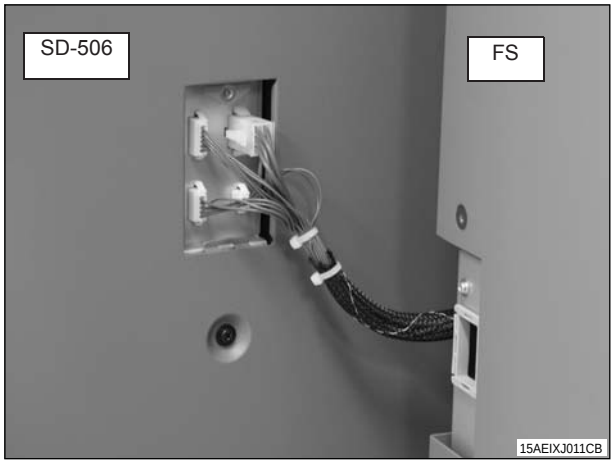
1. Turn OFF the machine's Sub and Main power switches, and unplug the power cord.
2. Install the Installation plate/1 (2 places), the Installation plate/2, and the Installation plate/3 on the left side of the SD-506 as below. (TP screw M4x8: each 2 pcsx4 places.)



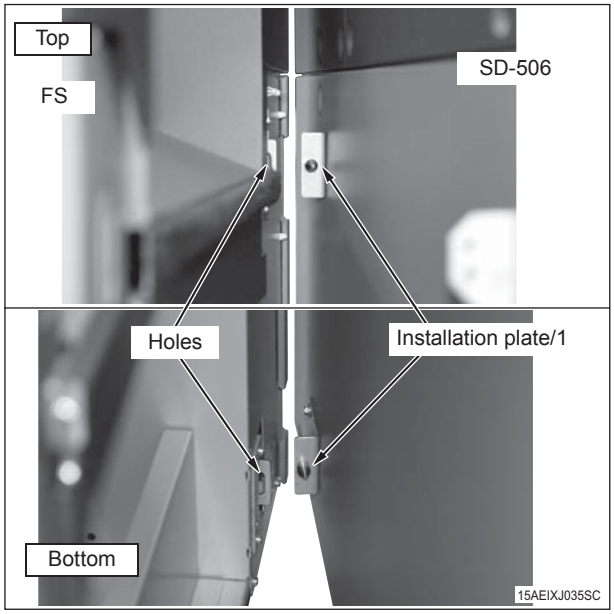

3. Remove the connector cover on the left side of the SD-506 (1 screw).



4. Install the FS to the SD-506.
   (1) Connect the four FS connector plugs to the connector jacks of the SD-506 on the paper exit side.

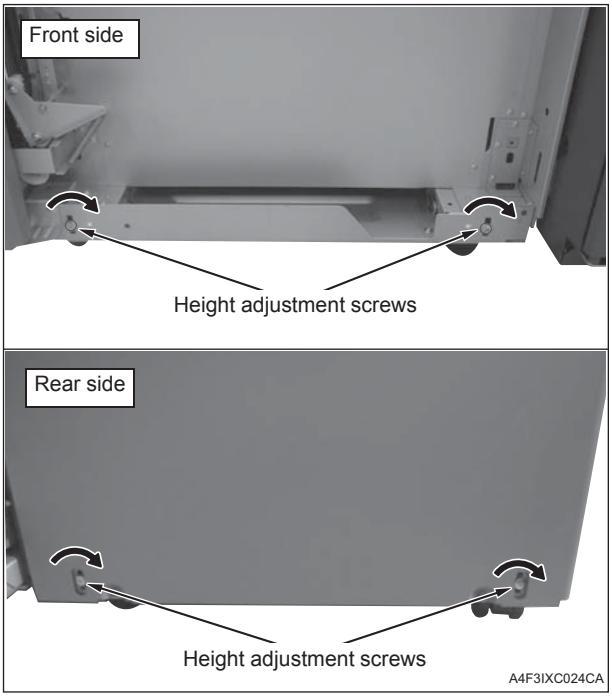



   (2) Align the top and bottom holes of the FS to the Installation plate/1 pins, and lock them by sliding the FS to the back.

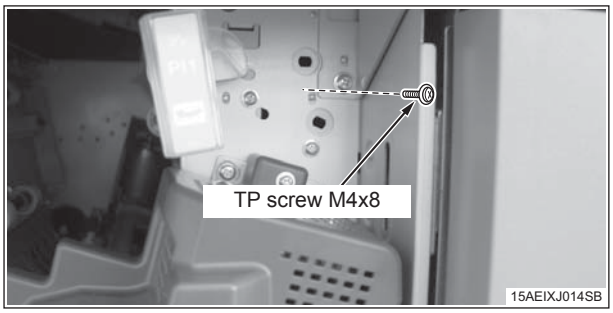



**Note:**

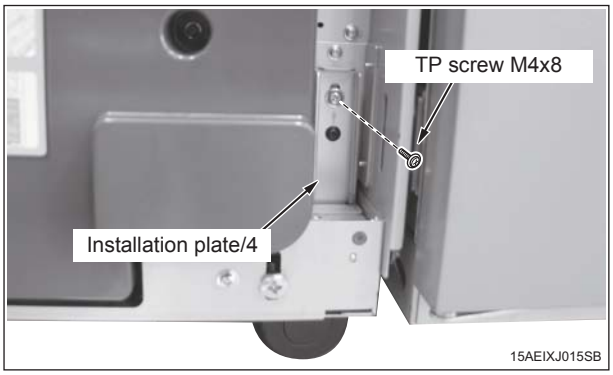
- **If the heights and the gaps between the FS and the SD-506 are not uniform, adjust those by turning the adjustment screws of the FS.**
- **Turning the screw clockwise rises the height.**




   (3) Secure the upper part of the FS to the SD-506 with a screw. (TP screw M4x8: 1 pc.)




   (4) Install the Installation plate/4 to secure the lower part of the FS to the SD-506. (TP screw M4x8: 1 pc.)



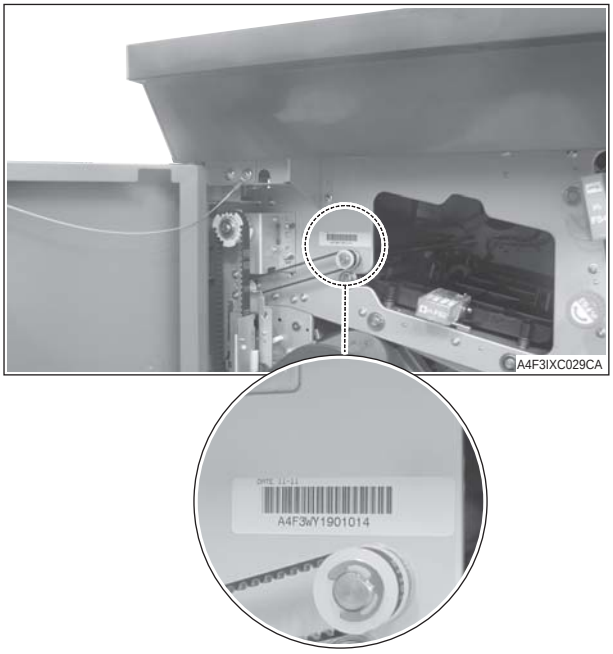

5. Perform the operations described in the following "VI. Common operations after installing FS-532".

# VI. Common operations after installing FS-532

1. Serial Number Registration

Register the serial number of the FS to the machine memory.

The location of the serial number is shown in the figure below.




| | Step |
|---|---|
| 1. | Plug the power cord into the outlet and turn ON the Main power switch. |
| 2. | Enter Service mode.<br>**Note:**<br>**Refer to procedures in the Service Manual to enter into the Service Mode.** |
| 3. | Touch the “System Setting” key. |
| 4. | Touch the “Serial Number Setting” key. |
| 5. | Touch the “Finisher” key to display the serial number setting screen. (Select the installation order key.) |
| 6. | Enter the serial number of the FS and touch the “OK” key. (Use “Shift” to switch between upper case letters and lower case letters.) |
| 7. | Touch the “Close” key. |

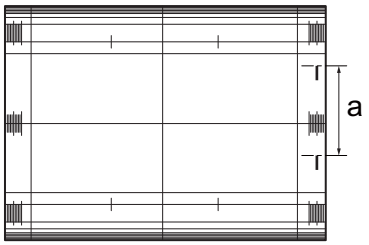
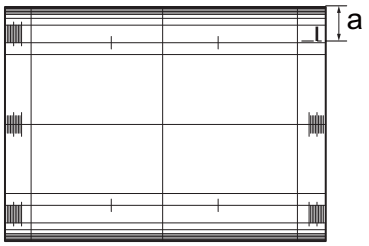
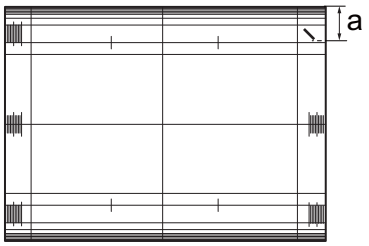
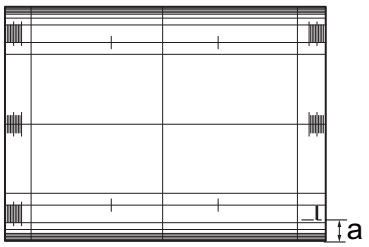
2. Confirmation of Paper Output

Implement the following adjustment procedures.

a. Staple Position Adjustment (staple finisher (main) adjustment)

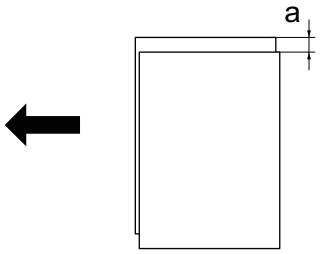
Adjust the staple position while in stapling by FS.

| | Step |
|---|---|
| 1. | "Service Mode Menu screen"<br>Press [Finisher Adjustment]. |
| 2. | "Service Mode Menu screen"<br>Press [Stapler(Main) Adjustment]. |
| 3. | "Staple Finisher(Main) Adjustment Menu screen"<br>Press [Staple Position Adjustment]. |
| 4. | "Staple Finisher(Main) Adjustment Menu screen"<br>Select the Staple Mode that you want to adjust from [2 Position Pitch(120mm)], [2 Position Pitch(140mm)], [2 Position Pitch(165mm)], [Rear Diagonal], [Rear Parallel] and [Front Parallel]. Then press [Print Mode].<br>**Note:**<br>• **When [2 Position Pitch(120mm)] is selected, confirm that [Narrow+] is selected for [Staple Pitch] in [Output Setting]-[Staple].**<br>• **When [2 Position Pitch(140mm)] is selected, confirm that [Narrow] is selected for [Staple Pitch] in [Output Setting]-[Staple].**<br>• **When [2 Position Pitch(165mm)] is selected, confirm that [Wide] is selected for [Staple Pitch] in [Output Setting]-[Staple].** |
| 5. | Set the A3 or 11 x 17 paper and press the Start key to output the test pattern (No.16). |

| | Step |
|---|---|
| 6. | Check the Staple position "a" of the output paper in accordance with the selected Staple Mode.<br>For [2 Position Pitch(120mm)], [2 Position Pitch(140mm)], [2 Position Pitch(165mm)]<br>Standard value: a=120, 140, 165 +/-3mm<br>  <br><br>For [Rear Diagonal]<br>Standard value: a=19.6+/-2mm<br>  <br><br>For [Rear Parallel]<br>Standard value: a=15.2+/-3mm<br>  <br><br>For [Front Parallel]<br>Standard value: a=6.4+/-3mm<br>  <br> |
| 7. | When the value is not within the standard value, press [Close]. |
| 8. | "Staple Position Adjustment screen"<br>Enter the setting data through the numeric buttons and press [Set].<br>Range ([2 Position Pitch(120mm)], [2 Position Pitch(140mm)] and [2 Position Pitch(165mm)]): -5 (narrower) to +5 (wider)<br>Range ([Rear Diagonal], [Rear Parallel] and [Front Parallel]): -5 (in front) to +5 (in back)<br>1step=1.0mm |
| 9. | Repeat steps 4 to 8 until the standard value can be obtained. |

b. Staple Paper Width Adjustment (staple finisher (main) adjustment)

Changes the CD Alignment Plate width of the staple bundle.

| | Step |
|---|---|
| 1. | "Service Mode Menu screen"<br>Press [Finisher Adjustment]. |
| 2. | "Service Mode Menu screen"<br>Press [Stapler(Main) Adjustment]. |
| 3. | "Staple Finisher(Main) Adjustment Menu screen"<br>Press [Staple Paper Width Adjustment]. |
| 4. | "Staple Paper Width Adjustment screen"<br>Press [▼] or [▲], and select [All]. |
| 5. | Press [Print Mode]. |
| 6. | Set paper in A4 size on the tray and press the Start key to output the test pattern (No.16). |
| 7. | Check the misalignment "a" of the output paper in the main scan direction.<br>Standard value: a = +/-1.0mm or less<br>  <br><br>The paper is stacked on the stacker and stops in the following conditions.<br>• CD alignment plate: Closed<br>• FD alignment plate: Closed<br>• Rewind paddle: Descent<br>Check the alignment. For the target value of the adjustment, refer to the followings.<br>• The interval between the paper and the CD alignment plate: 0mm<br>• The interval between the paper and the FD alignment plate: -2mm (shorter with reference to the paper length)<br>• The contact area between the paper and the rewind paddle: 2mm (the paper being pressed)<br>When adjusting, remove the stacked paper and perform the initial operation by opening and closing the front door of the finisher.<br>**Note:**<br>**• When the operation stops due to the paper lack or jam during printing, be sure to perform the initial operation by opening and closing the front door.**<br>**• For the adjustment, be sure to conduct Staple Paper Width Adjustment (staple finisher (main) adjustment), , FD Alignment Plate Adjustment (staple finisher (main) adjustment) , Rewind Paddle Descent Adjustment (staple finisher (main) adjustment) in order.**<br>**• If the size of the paper to be adjusted exceeds 230mm, the FD alignment plate moves to the standby position because the paper is too long. Be careful that the paper jam possibly occurs at the paper exit section if the stacker is pulled out in this condition.** |

| | Step |
|---|---|
| 8. | When the value is not within the standard value, press [Close]. |
| 9. | "Staple Paper Width Adjustment screen"<br>Enter the setting data through the numeric buttons and press [Set].<br>Range: -20 (wider) to +20 (narrower)<br>1step=1.0mm |
| 10. | Repeat steps 5 to 9 until the standard value can be obtained. |

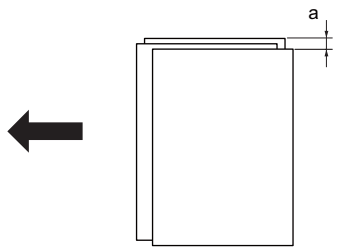
c. FD Alignment Plate Adjustment (staple finisher (main) adjustment)

Adjust the pushing of the FD alignment plate for the stacker while in alignment.

| | Step |
|---|---|
| 1. | "Service Mode Menu screen"<br>Press [Finisher Adjustment]. |
| 2. | "Service Mode Menu screen"<br>Press [Stapler(Main) Adjustment]. |
| 3. | "Staple Finisher(Main) Adjustment Menu screen"<br>Press [FD Alignment Plate Adjustment]. |
| 4. | "FD Alignment Plate Adjustment screen"<br>Press [▼] or [▲], and select [All]. |
| 5. | Press [Print Mode]. |
| 6. | Set paper in A4 size on the tray and press the Start key to output the test pattern (No.16). |
| 7. | Check the misalignment "a" of the output paper in the sub scan direction.<br>Standard value: a = +/-1.0mm or less |
| 8. | Press [Return]. |

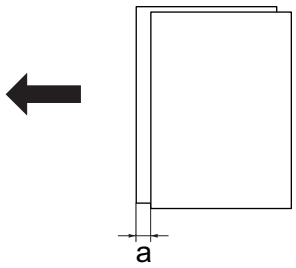
d. Exit Guide Unit Paper Width Adjustment (staple finisher (main) adjustment)

Adjust the position of the exit alignment plate (front and back) while in paper exit alignment.

| | Step |
|---|---|
| 1. | "Service Mode Menu screen"<br>Press [Finisher Adjustment]. |
| 2. | "Service Mode Menu screen"<br>Press [Stapler(Main) Adjustment]. |
| 3. | "Staple Finisher(Main) Adjustment Menu screen"<br>Press [Exit Guide Unit Paper Width]. |
| 4. | "Exit Guide Unit Paper Width Adjustment screen"<br>Press [▼] or [▲ to select the paper size that you want to adjust. |
| 5. | Press [Print Mode]. |
| 6. | Select the paper size according to the item that you want to adjust and press the Start key to output some test pattern (No.16). |
| 7. | Check the misalignment "a" of the stacked paper.<br>  <br><br>**Note:**<br>• **Check the misalignment between exit paper and the exit alignment plate under the operation as a reference for the adjustment.**<br>• **Too narrow adjustment causes an uneven paper exit in the sub scan direction.**<br>The paper is stacked on the main tray and stops while the paper exit alignment plate is closed.<br>Check the alignment. For the target value of the adjustment, refer to the followings.<br>• The interval between the paper and the paper exit alignment plate: 0mm<br>When adjusting, remove the stacked paper and perform the initial operation by opening and closing the front door of the finisher.<br>**Note:**<br>• **When the operation stops due to the paper lack or jam during printing, be sure to perform the initial operation by opening and closing the front door.** |
| 8. | Press [Close] to adjust the position of the paper exit alignment plate. |
| 9. | "Exit Guide Unit Paper Width Adjustment screen"<br>Enter the value using the setting button and touch the “Set” key.<br>Setting range: -50 (wider) to +50 (narrower)<br>1step=0.1mm<br>Adjustment standard value (at the alignment operation): Paper width 0mm to +1mm |
| 10. | Repeat steps 4 to 9 until the standard value can be obtained. |

e. Rewind Paddle Descent Adjustment (staple finisher (main) adjustment)

Adjust the rewind paddle descent (time) in stacking.

| | Step |
|---|---|
| 1. | "Service Mode Menu screen"<br>Press [Finisher Adjustment]. |
| 2. | "Service Mode Menu screen"<br>Press [Stapler(Main) Adjustment]. |
| 3. | [Staple Finisher(Main) Adjustment Menu]<br>Touch the “Rewind Paddle Descent Adj.” key. |
| 4. | "Rewind Paddle Descent Adjustment screen"<br>Press [▼] or [▲], and select [All]. |
| 5. | Press [Print Mode]. |
| 6. | Set paper in A4 size on the tray and press the Start key to output the test pattern (No.16). |
| 7. | Check the misalignment "a" of the output paper in the sub scan direction.<br>Standard value: a = +/-1.0mm or less<br>  <br><br>The paper is stacked on the stacker and stops in the following conditions.<br>• CD alignment plate: Closed<br>• FD alignment plate: Closed<br>• Rewind paddle: Descent<br>Check the alignment. For the target value of the adjustment, refer to the followings.<br>• The interval between the paper and the CD alignment plate: 0mm<br>• The interval between the paper and the FD alignment plate: -2mm (shorter with reference to the paper length)<br>• The contact area between the paper and the rewind paddle: 2mm (the paper being pressed)<br>When adjusting, remove the stacked paper and perform the initial operation by opening and closing the front door of the finisher. |
| 8. | When the value is not within the standard value, press [Close]. |
| 9. | "Rewind Paddle Descent Adjustment screen"<br>Enter the setting data through the numeric buttons and press [Set].<br>Setting range: -10 (Weak) to +10 (Strong)<br>1 step= 0.2mm |
| 10. | Repeat steps 5 to 9 until the standard value can be obtained. |